

### AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 12-13, 24-25, and 36 as noted below.

1. (Currently Amended) A closed loop heating system for a nipple aspirate fluid aspiration device, comprising a plurality of inflatable bladders configured to be arranged in series from a first bladder to a last bladder and removably connected to the nipple aspirate fluid aspiration device to provide circumferential compression of a breast for the expression of intraductal fluid; a reservoir; and a series fluid flow path comprising an inflow line operably connected to the first bladder in the series and an outflow line operably connected to the last bladder in the series for placing the bladders in fluid communication with the reservoir; wherein the entire closed loop heating system can be operated and removed without exposing a fluid within said closed loop to the outside of the closed loop system; wherein each bladder has an inflated width of no more than about 3 inches and an inflated length of no more than about 4 inches; and wherein said fluid flow path comprises a movable wall such that fluid in the system can be moved by application of external pressure to the movable wall.

2. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 1, wherein the reservoir comprises a movable wall.

3. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 2, wherein the reservoir comprises a compressible container.

4. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 1, comprising at least 3 inflatable bladders.

5. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 1, comprising at least 6 inflatable bladders.

6. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 1, further comprising a heat exchange fluid contained within the closed loop.

7. (Cancelled)

8. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 1, wherein each bladder has an inflated width of no more than about 2 inches and an inflated length of no more than about 3 inches.

9. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 4, wherein each bladder has an inflated thickness of no more than about 2 inches.

10. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 9, wherein each bladder has an inflated thickness of no more than about 1 inch.

11. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 1, wherein the fluid flow path comprises a first conduit extending between the bladders and the reservoir and a second conduit extending between the bladders and the reservoir.

12. (Currently Amended) An array of inflatable bladders for use in a breast pump, comprising:

at least a first and a second inflatable bladder in a series flow path configured to provide circumferential compression of a breast for the expression of intraductal fluid;

a flow path extending between the first and second bladder;

a reservoir;

and a flow path comprising an inflow line connected adjacent the first bladder and an outflow line connected adjacent the second bladder and between the reservoir and the first and second bladder; said flow path comprising a movable wall such that a fluid in the system can be moved by application of external pressure to the movable wall;

wherein each bladder has an inflated width of no more than about 3 inches and an inflated length of no more than about 4 inches;

and wherein said array is configured to be removably connected to a breast pump and can be removed from operative association with a pump without exposing the fluid within said array to the outside of the array of inflatable bladders.

13. (Currently Amended) A closed loop heating system for a nipple aspirate fluid aspiration device, comprising a plurality of inflatable bladders configured to be arranged in series from a first bladder to a last bladder and removably connected to the nipple aspirate fluid aspiration device to provide a circumferential compressive force anatomically adjacent to a lactiferous sinus of a breast for the purpose of expressing intraductal fluid; a reservoir; and a

fluid flow path comprising an inflow line operably connected to the first bladder in the series and an outflow line operably connected to the last bladder in the series for placing the bladders in fluid communication with the reservoir; wherein the entire closed loop heating system can be operated and removed without exposing a fluid within said closed loop to the outside of the closed loop system; and wherein said fluid flow path comprises a movable wall such that fluid in the system can be moved by application of external pressure to the movable wall.

14. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 13, wherein the reservoir comprises a movable wall.

15. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 14, wherein the reservoir comprises a compressible container.

16. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 13, comprising at least 3 inflatable bladders.

17. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 13, comprising at least 6 inflatable bladders.

18. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 13, further comprising a heat exchange fluid contained within the closed loop.

19. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 16, wherein each bladder has an inflated width of no more than about 3 inches and an inflated length of no more than about 4 inches.

20. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 19, wherein each bladder has an inflated width of no more than about 2 inches and an inflated length of no more than about 3 inches.

21. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 16, wherein each bladder has an inflated thickness of no more than about 2 inches.

22. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 21, wherein each bladder has an inflated thickness of no more than about 1 inch.

23. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 13, wherein the fluid flow path comprises a first conduit extending between the bladders and the reservoir and a second conduit extending between the bladders and the reservoir.

24. (Currently Amended) An array of inflatable bladders for use in a breast pump, comprising:

- at least a first and a second inflatable bladder configured to provide a circumferential compressive force to a breast anatomically adjacent to a lactiferous sinus of a breast for the purpose of expressing intraductal fluid;

- a flow path extending between the first and second bladder;

- a reservoir;

- and a flow path comprising an inflow line operably connected to the first bladder and an outflow line operably connected to the second bladder and between the reservoir and the first and second bladder; said flow path comprising a movable wall such that a fluid in the system can be moved by application of external pressure to the movable wall;

- wherein said array is configured to be removably connected to a breast pump and can be removed from operative association with a pump without exposing the fluid within said array to the outside of the array of inflatable bladders.

25. (Currently Amended) A closed loop heating system for a nipple aspirate fluid aspiration device, comprising a plurality of inflatable bladders configured to be arranged in series from a first bladder to a last bladder and removably connected to the nipple aspirate fluid device to provide radially symmetrical compression of a breast along a longitudinal axis for the purpose of expressing intraductal fluid; a reservoir; and a fluid flow path comprising an inflow line operably connected to the first bladder in the series and an outflow line operably connected to the last bladder in the series for placing the bladders in fluid communication with the reservoir; wherein the entire closed loop heating system can be operated and removed without exposing a fluid within said closed loop to the outside of the closed loop system; and wherein said fluid flow path comprises a movable wall such that fluid in the system can be moved by application of external pressure to the movable wall.

26. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 25, wherein the reservoir comprises a movable wall.

27. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 25, wherein the reservoir comprises a compressible container.

28. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 25, comprising at least 3 inflatable bladders.

29. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 25, comprising at least 6 inflatable bladders.

30. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 25, further comprising a heat exchange fluid contained within the closed loop.

31. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 28, wherein each bladder has an inflated width of no more than about 3 inches and an inflated length of no more than about 4 inches.

32. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 31, wherein each bladder has an inflated width of no more than about 2 inches and an inflated length of no more than about 3 inches.

33. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 28, wherein each bladder has an inflated thickness of no more than about 2 inches.

34. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 33, wherein each bladder has an inflated thickness of no more than about 1 inch.

35. (Previously Presented) A closed loop heating system for a nipple aspirate fluid aspiration device as in Claim 25, wherein the fluid flow path comprises a first conduit extending between the bladders and the reservoir and a second conduit extending between the bladders and the reservoir.

36. (Currently Amended) An array of inflatable bladders for use in a breast pump, comprising:

at least a first and a second inflatable bladder configured to produce radially symmetrical compression of a breast around a longitudinal axis for the purpose of expressing intraductal fluid;

a flow path extending between the first and second bladder;

a reservoir;

and a flow path comprising an inflow line operably connected to the first bladder and an outflow line operably connected to the second bladder between the reservoir and the first and second bladder; said flow path comprising a movable wall such that a fluid in the system can be moved by application of external pressure to the movable wall;

wherein said array is configured to be removably connected to a breast pump and can be removed from operative association with a pump without exposing the fluid within said array to the outside of the array of inflatable bladders.